

Diamond seal

Category: Drilling fluids

Absorbent Polymer for Lost Circulation

DIAMOND SEAL is a water-swellable but not water-soluble, 100% crystalline synthetic polymer. DIAMOND SEAL absorbs hundreds of times its own weight in water. It is intended for use primarily as a lost circulation material for horizontal directional drilling.

Applications/Functions

- Lost circulation material for horizontal directional drilling
- Prevent inadvertent returns in river crossing applications
- Stabilize borehole in cobble and gravel
- Stabilize unconsolidated formations

Advantages

- Rapid water absorption
- Effective in mitigating lost circulation
- Economical-small quantity yields large volume
- Easy to use
- Non-fermenting

Recommended Treatment

For slug treatment

- Add 1/2 to 1 pound (0.25 - .5 kg) DIAMOND SEAL per joint

As a pill

- Add DIAMOND SEAL at 10 – 20 lb/100 gallons of drilling fluid
- Add DIAMOND SEAL at 12 – 24 kg/m³ of drilling fluid

Treatment for Loss of Circulation or Inadvertent Returns in HDD Operations

(Prior to pumping, remove all in-line screens in circulating system)

Add the following to existing drilling fluid and displace

BAROLIFT®	0.25 – 0.5 lb/100 gallons (0.3 – 0.6 kg/m ³)
N-SEALTM	3 – 5 lb/100 gallons (3.6 – 6.0 kg/m ³)
DIAMOND SEAL	10 – 20 lb/100 gallons (12 – 24 kg/m ³)



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